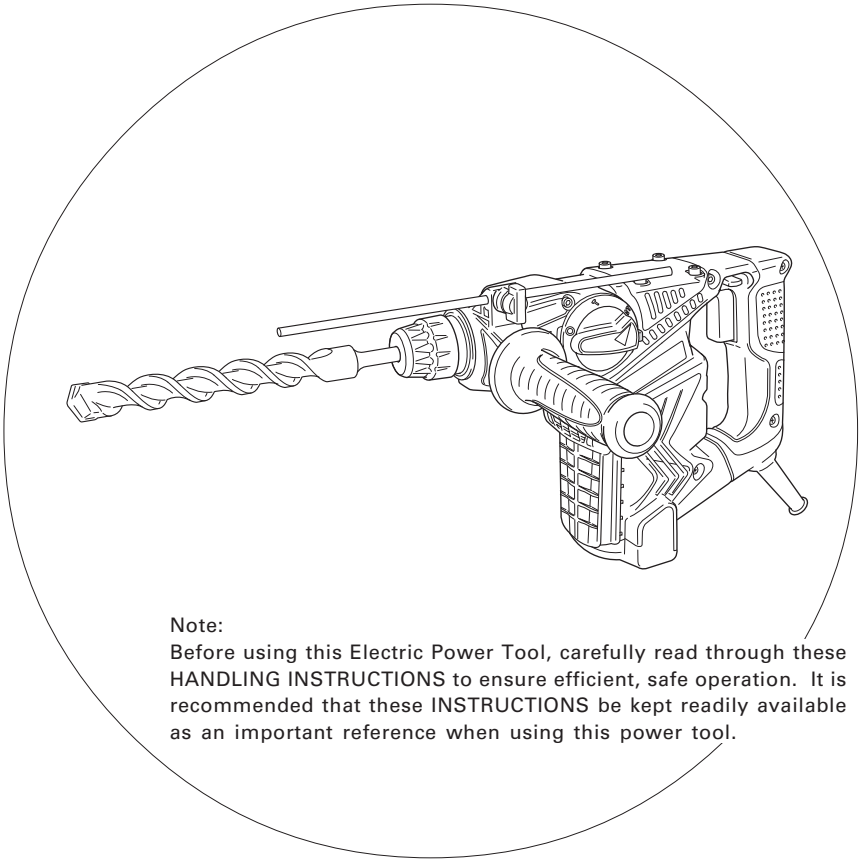
HITACHI

Rotary Hammer
Model DH 28PC

Handling instructions



Note:
Before using this Electric Power Tool, carefully read through these HANDLING INSTRUCTIONS to ensure efficient, safe operation. It is recommended that these INSTRUCTIONS be kept readily available as an important reference when using this power tool.

Hitachi Koki

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING
Read all safety warnings and all instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.
The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety
- **a) Keep work area clean and well lit.**
  Cluttered or dark areas invite accidents.
- **b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.**
  Power tools create sparks which may ignite the dust or fumes.
- **c) Keep children and bystanders away while operating a power tool.**
  Distractions can cause you to lose control.

2) Electrical safety
- **a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.**
  Unmodified plugs and matching outlets will reduce risk of electric shock.
- **b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.**
  There is an increased risk of electric shock if your body is earthed or grounded.
- **c) Do not expose power tools to rain or wet conditions.**
  Water entering a power tool will increase the risk of electric shock.
- **d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.**
  Damaged or entangled cords increase the risk of electric shock.
- **e) When operating a power tool outdoors, use an extension cord suitable for outdoor use.**
  Use of a cord suitable for outdoor use reduces the risk of electric shock.
- **f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.**
  Use of an RCD reduces the risk of electric shock.

3) Personal safety
- **a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.**
  A moment of inattention while operating power tools may result in serious personal injury.
- **b) Use personal protective equipment. Always wear eye protection.**
  Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.**
  Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- **d) Remove any adjusting key or wrench before turning the power tool on.**
  A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **e) Do not overreach. Keep proper footing and balance at all times.**
  This enables better control of the power tool in unexpected situations.
- **f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.**
  Loose clothes, jewellery or long hair can be caught in moving parts.
- **g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.**
  Use of dust collection can reduce dust related hazards.

4) Power tool use and care
- **a) Do not force the power tool. Use the correct power tool for your application.**
  The correct power tool will do the job better and safer at the rate for which it was designed.
- **b) Do not use the power tool if the switch does not turn it on and off.**
  Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.**
  Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.**
  Power tools are dangerous in the hands of untrained users.
- **e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation.**
  If damaged, have the power tool repaired before use.
  Many accidents are caused by poorly maintained power tools.
- **f) Keep cutting tools sharp and clean.**
  Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.**
  Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. *This will ensure that the safety of the power tool is maintained.*

PRECAUTION

Keep children and infirm persons away.

When not in use, tools should be stored out of reach of children and infirm persons.

PRECAUTIONS ON USING ROTARY HAMMER

1. **Wear ear protectors.**
   Exposure to noise can cause hearing loss.
2. **Use auxiliary handle(s), if supplied with the tool.**
   Loss of control can cause personal injury.
3. **Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
4. Do not touch the bit during or immediately after operation. The bit becomes very hot during operation and could cause serious burns.
5. Before starting to break, chip or drill into a wall, floor or ceiling, thoroughly confirm that such items as electric cables or conduits are not buried inside.
6. Always hold the body handle and side handle of the power tool firmly. Otherwise the counterforce produced may result in inaccurate and even dangerous operation.
7. Wear a dust mask
   Do not inhale the harmful dusts generated in drilling or chiseling operation. The dust can endanger the health of yourself and bystanders.

SPECIFICATIONS

Voltage (by areas)*	(110 V, 115 V, 120 V, 127 V, 220 V, 230 V, 240 V) ~
Power input	720 W*
No-load speed	0 – 1050 min^{-1}
Full-load impact rate	0 – 4000 min^{-1}
Capacity: concrete steel wood	4 – 28 mm 13 mm 32 mm
Weight (without cord and side handle)	3.5 kg

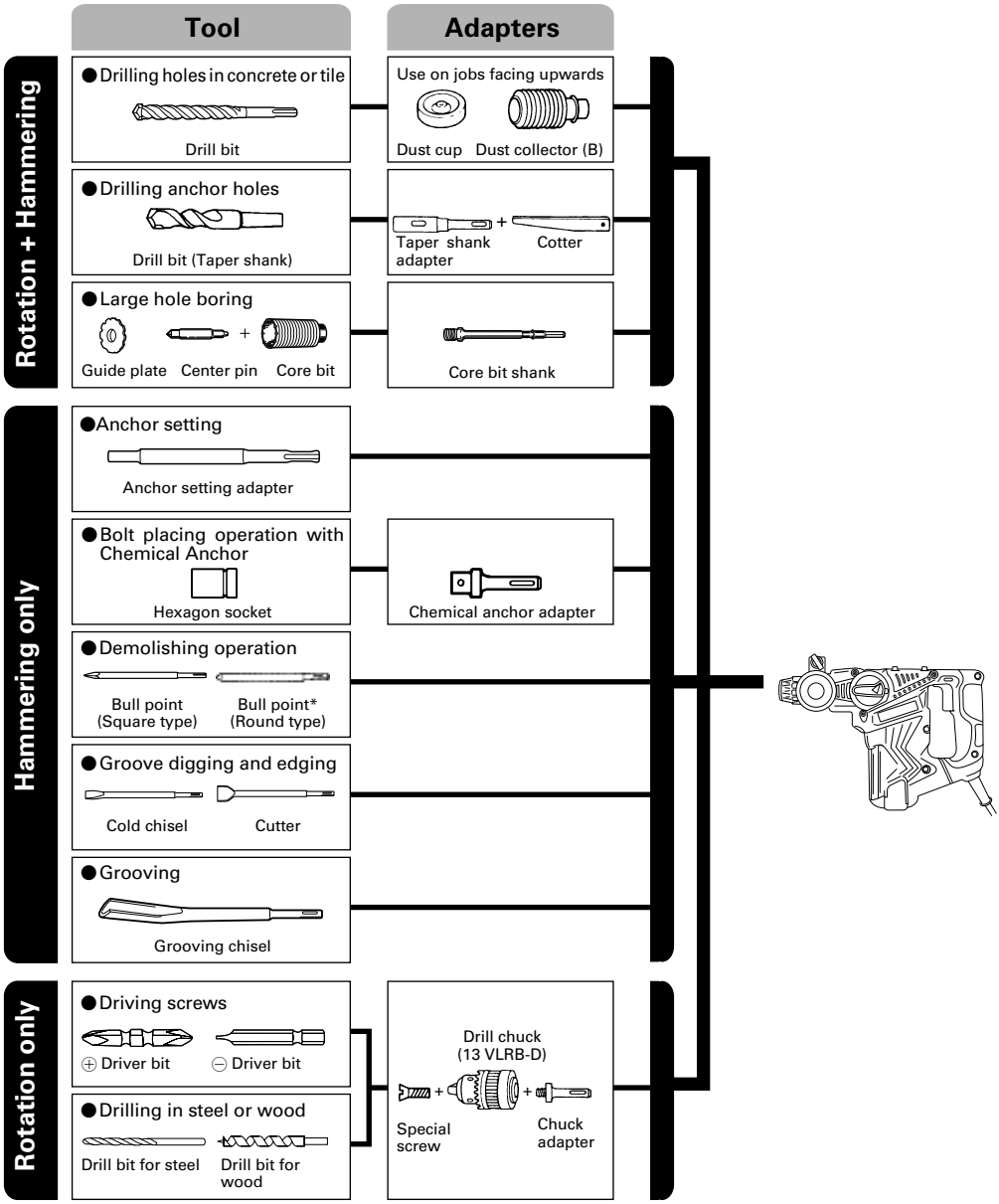
*Be sure to check the nameplate on product as it is subject to change by areas.

STANDARD ACCESSORIES

(1) Plastic case 1
(2) Side handle 1
(3) Stopper 1

Standard accessories are subject to change without notice.

OPTIONAL ACCESSORIES (sold separately)



● Drilling holes in concrete or tile

SDS-plus Drill bit		
Outer dia.	Overall length	Effective length
4.0 mm	110 mm	50 mm
5.0 mm	110 mm	50 mm
	160 mm	100 mm
5.5 mm	110 mm	50 mm
6.5 mm	160 mm	100 mm
7.0 mm	160 mm	100 mm
8.0 mm	160 mm	100 mm
8.5 mm	160 mm	100 mm
9.0 mm	160 mm	100 mm
12.0 mm	166 mm	100 mm
	260 mm	200 mm
12.7 mm	166 mm	100 mm
14.0 mm	166 mm	100 mm
15.0 mm	166 mm	100 mm
16.0 mm	166 mm	100 mm
	260 mm	200 mm
17.0 mm	166 mm	100 mm
19.0 mm	260 mm	200 mm
20.0 mm	250 mm	200 mm
22.0 mm	250 mm	200 mm
25.0 mm	450 mm	400 mm

● Large hole boring

Core bit Outer dia.	Center pin	Core bit shank Overall length
25 mm*	Not applicable	105 mm 300 mm
29 mm*		
32 mm	(A)	
35 mm		
38 mm		
45 mm	(B)	300 mm
50 mm		
65 mm		
80 mm		

* Without guide plate

● Anchor setting

Anchor setting adapter Anchor size
W 1/4″
W 5/16″
W 3/8″
W 1/2″
W 5/8″

● Drilling anchor holes

Taper shank adapter Taper mode
Morse taper No.1
Morse taper No.2
A-Taper
B-taper

Optional accessories are subject to change without notice.

APPLICATIONS

Rotation and hammering function
○ Drilling anchor holes
○ Drilling holes in concrete
○ Drilling holes in tile
Rotation only function
○ Drilling in steel or wood (with optional accessories)
○ Tightening machine screws, wood screws (with optional accessories)
Hammering only function
○ Light-duty chiselling of concrete, groove digging and edging.

PRIOR TO OPERATION

1. **Power source**
   Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
2. **Power switch**
   Ensure that the power switch is in the OFF position. If the plug is connected to a receptacle while the power switch is in the ON position, the power tool will start operating immediately, which could cause a serious accident.
3. **Extension cord**
   When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.
4. **Mounting the drill bit (Fig. 1)**

CAUTION
To prevent accidents, make sure to turn the switch off and disconnect the plug from the receptacle.

NOTE
When using tools such as bull points, drill bits, etc., make sure to use the genuine parts designated by our company.

(1) Clean the shank portion of the drill bit.
(2) Insert the drill bit in a twisting manner into the tool holder until it latches itself (**Fig. 1**).

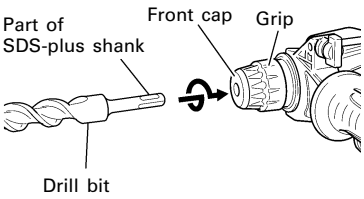


Fig. 1

(3) Check the latching by pulling on the drill bit.
(4) To remove the drill bit, fully pull the grip in the direction of the arrow and pull out the drill bit (**Fig. 2**).

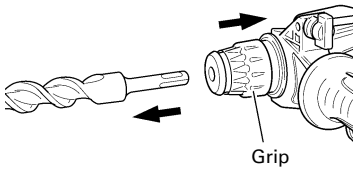


Fig. 2

5. **Installation of dust cup or dust collector (B) (Optional accessories) (Fig. 3, Fig. 4)**
   When using a rotary hammer for upward drilling operations attach a dust cup or dust collector (B) to collect dust or particles for easy operation.

○ Installing the dust cup
Use the dust cup by attaching to the drill bit as shown in **Fig. 3**.
When using a bit which has big diameter, enlarge the center hole of the dust cup with this rotary hammer.

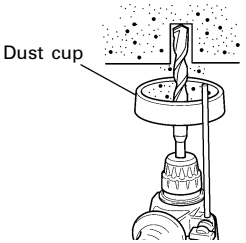


Fig. 3

○ Installing dust collector (B)
When using dust collector (B), insert dust collector (B) from the tip of the bit by aligning it to the groove on the grip (**Fig. 4**).

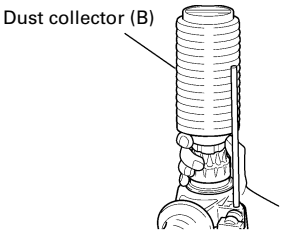


Fig. 4

CAUTION
○ The dust cup and dust collector (B) are for exclusive use of concrete drilling work. Do not use them for wood or metal drilling work.
○ Insert dust collector (B) completely into the chuck part of the main unit.

○ When turning the rotary hammer on while dust collector (B) is detached from a concrete surface, dust collector (B) will rotate together with the drill bit. Make sure to turn on the switch after pressing the dust cup on the concrete surface. (When using dust collector (B) attached to a drill bit that has more than 190 mm of overall length, dust collector (B) cannot touch the concrete surface and will rotate. Therefore please use dust collector (B) by attaching to drill bits which have 166 mm, 160 mm, and 110 mm overall length.)
○ Dump particles after every two or three holes when drilling.
○ Please replace the drill bit after removing dust collector (B).

6. Selecting the driver bit
Screw heads or bits will be damaged unless a bit appropriate for the screw diameter is employed to drive in the screws.

7. Confirm the direction of bit rotation (Fig. 5)
The bit rotates clockwise (viewed from the rear side) by pushing the R-side of the push button. The L-side of the push button is pushed to turn the bit counterclockwise.

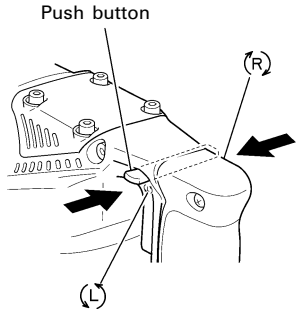


Fig. 5

8. Selecting the function mode
You can switch functions to the 3 modes of "hammering only, "rotation + hammering", and "rotation only" by turning the change lever while pressing the push button. Set the ▲ mark position of the change lever to that of the mode to be used.

CAUTION:
○ Before operating the change lever, check and make sure that the motor has stopped.
A failure can occur if it is operated while the motor is running.
○ To operate the change lever, press the push button, and release the lock of the change lever. Also, check and make sure after operation that the push button has returned and that the change lever has been locked.
○ Switch the change lever without mistake. If it is used at a position halfway, there is a fear that the service life of the switching mechanism may be shortened.

9. RCD
The use of a residual current device with a rated residual Current of 30mA or less at all times is recommended.

HOW TO USE

CAUTION:
To prevent accidents, make sure to turn the switch off and disconnect the plug from the receptacle when the drill bits and other various parts are installed or removed. The power switch should also be turned off during a work break and after work.

NOTE:
Ensure that the wing bolt in the side handle is properly tightened before using the tool.

1. Switch operation
The rotation speed of the drill bit can be controlled steplessly by varying the amount that the trigger switch is pulled. Speed is low when the trigger switch is pulled slightly and increases as the switch is pulled more.
However, the switch trigger can only be pulled in halfway during reverse and rotates at half the speed of forward operation.

2. Rotation + hammering
This rotary hammer can be set to rotation and hammering mode by pressing the push button and turning the change lever to the T mark (**Fig. 6**). Turn the grip slightly and confirm that the clutch has been engaged with a click.

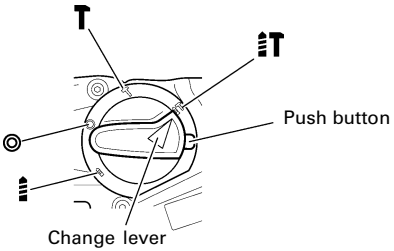


Fig. 6

(1) Mount the drill bit.
(2) Pull the trigger switch after applying the drill bit tip to the drilling position. (**Fig. 7**)

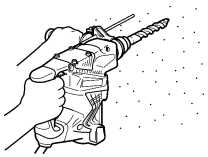


Fig. 7

(3) Pushing the rotary hammer forcibly is not necessary at all. Pushing slightly so that drill dust comes out gradually is sufficient.

CAUTION:
When the drill bit touches construction iron bar, the bit will stop immediately and the rotary hammer will react to revolve. Therefore grip the side handle and handle tightly as shown in **Fig. 7**.

3. Rotation only

This rotary hammer can be set to rotation only mode by pussing the push button and turning the change lever to the mark. (**Fig. 8**)

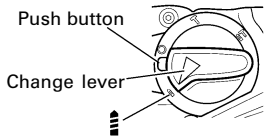


Fig. 8

Turn the grip slightly and confirm that the clutch has been engaged with a click.

To drill wood or metal material using the drill chuck and chuck adapter (optional accessories), proceed as follows.

Installing drill chuck and chuck adapter: (**Fig. 9**)

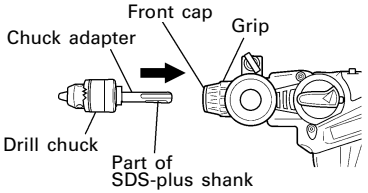


Fig. 9

(1) Attach the drill chuck to the chuck adapter.

(2) The part of the SDS-plus shank is the same as the drill bit. Therefore, refer to the item of "Mounting the drill bit" for attaching it.

CAUTIONS:

- ○ Application of force more than necessary will not only expedite the work, but will deteriorate the tip edge of the drill bit and reduce the service life of the rotary hammer in addition.
- ○ Drill bits may snap off while withdrawing the rotary hammer from the drilled hole. For withdrawing, it is important to use a pushing motion.
- ○ Do not attempt to drill anchor holes or holes in concrete with the machine set in the rotation only function.
- ○ Do not attempt to use the rotary hammer in the rotation and hammering function with the drill chuck and chuck adapter attached. This would seriously shorten the service life of every component of the machine.

4. When driving machine screws (Fig. 10)

First, insert the bit into the socket in the end of chuck adapter (D).

Next, mount chuck adapter (D) on the main unit using procedures described in 4 (1), (2), (3), put the tip of the bit in the slots in the head of the screw, grasp the main unit and tighten the screw.

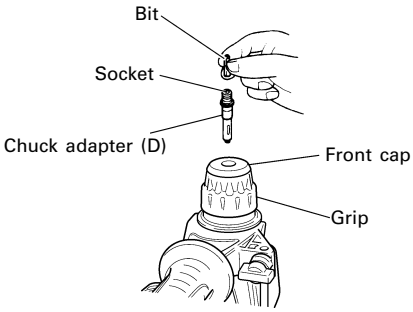


Fig. 10

CAUTIONS:

- ○ Exercise care not to excessively prolong driving time, otherwise, the screws may be damaged by excessive force.
- ○ Apply the rotary hammer perpendicularly to the screw head when driving the screw; otherwise, the screw head or bit will be damaged, or driving force will not be fully transferred to the screw.
- ○ Do not attempt to use the rotary hammer in the rotation and hammering function with the chuck adapter and bit attached.

5. When driving wood screws (Fig. 10)

(1) Selecting a suitable driver bit

Employ cross-recessed screws, if possible, since the driver bit easily slips off the heads of slotted-head screws.

(2) Driving in wood screws

- ○ Prior to driving in wood screws, make pilot holes suitable for them in the wooden board. Apply the bit to the screw head grooves and gently drive the screws into the holes.
- ○ After rotating the rotary hammer at low speed for a while until the wood screw is partly driven into the wood, squeeze the trigger more strongly to obtain the optimum driving force.

CAUTION:

Exercise care in preparing a pilot hole suitable for the wood screw taking the hardness of the wood into consideration. Should the hole be excessively small or shallow, requiring much power to drive the screw into it, the thread of the wood screw may sometimes be damaged.

6. Hammering only

This rotary hammer can be set to hammering only mode by pressing the push button and turning the change lever to the mark (**Fig. 11**).

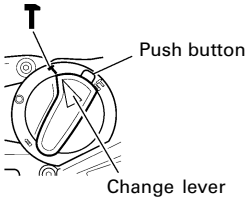


Fig. 11

(1) Mount the bull point or cold chisel.
(2) Press the push button and set the change lever to ◎ mark. (**Fig. 12**)

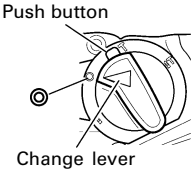


Fig. 12

The rotation is released, turn the tool and adjust the tool to desired position. (**Fig. 13**)

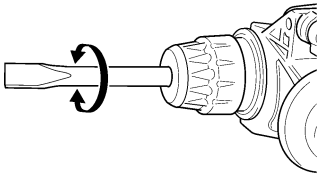


Fig. 13

(3) Turn the change lever to T mark. (**Fig. 11**) Then bull point or cold chisel is locked.

7. Using the stopper (Fig. 14)

(1) Loosen the wing bolt, and insert the stopper into the mounting hole on the side handle.
(2) Adjust the stopper position according to the depth of the hole and tighten the wing bolt securely.

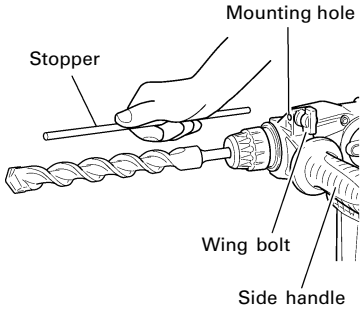


Fig. 14

8. How to use the drill bit (taper shank) and the taper shank adapter

(1) Mount the taper shank adapter to the rotary hammer. (**Fig. 15**)
(2) Mount the drill bit (taper shank) to the taper shank adapter. (**Fig. 15**)

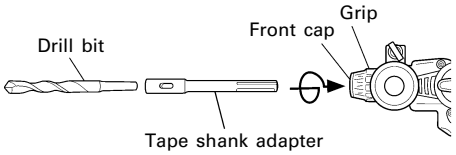


Fig. 15

(3) Turn the switch ON, and drill a hole in prescribed depth.
(4) To remove the drill bit (taper shank), insert the cotter into the slot of the taper shank adapter and strike the head of the cotter with a manual hammer supporting on a rests. (**Fig. 16**)

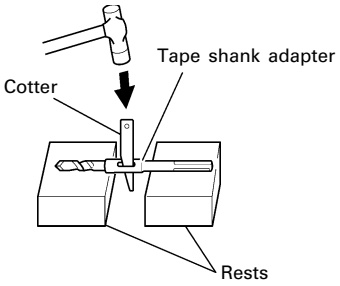


Fig. 16

9. Using the side handle

When you wish to change a position of the side handle, turn grip of the side handle counterclockwise to loosen it, and then fasten it firmly.

CAUTION:

When boring a hole, there can be a case where the machine attempts to rotate by the reaction at the time of penetrating a concrete wall and/or when a tip of the blade comes in contact with the rebar. Firmly fasten the side handle and hold the machine with both of your hands. Unless you hold it securely, an accident can occur.

HOW TO USE THE CORE BIT (FOR LIGHT LOAD)

When boring penerating large holes use the core bit (for light loads). At that time use with the center pin and the core bit shank provided as optional accessories.

1. Mounting

CAUTION

Be sure to turn power OFF and disconnect the plug from the receptacle.

(1) Mount the core bit to the core bit shank. (**Fig. 17**). Lubricate the thread of the core bit shank to facilitate disassembly.

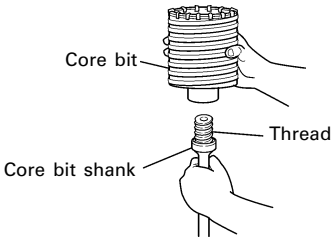


Fig. 17

(2) Mount the core bit to the rotary hammer (**Fig. 18**).

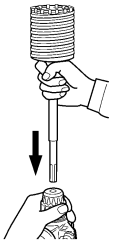


Fig. 18

(3) Insert the center pin into the guide plate until it stops.
(4) Engage the guide plate with the core bit, and turn the guide plate to the left or the right so that it does not fall even if it faced downward. (**Fig. 19**).

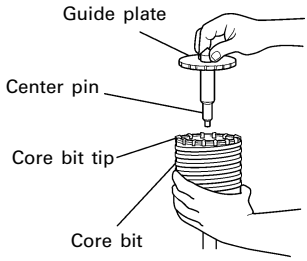


Fig. 19

2. How to bore (Fig. 20)
(1) Connect the plug to the power source.
(2) A spring is installed in the center pin.
Push it lightly to the wall or the floor straight.
Connect the core bit tip flush to the surface and start operating.
(3) When boring about 5 mm in depth the position of the hole will be established. Bore after that removing the center pin and the guide plate from core bit.
(4) Application of excessive force will not only expedite the work, but will deteriorate the tip edge of the drill bit, resulting in reduced service life of the rotary hammer.

CAUTION
When removing the center pin and the guide plate, turn OFF the switch and disconnect the plug from the receptacle.

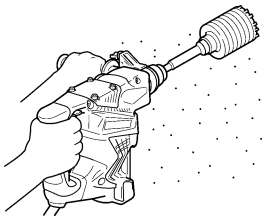


Fig. 20

3. Dismounting (Fig. 21)
Remove the core bit shank from the rotary hammer and strike the head of the core bit shank strongly two or three times with a manual hammer holding the core bit, then the thread becomes loose and the core bit can be removed.

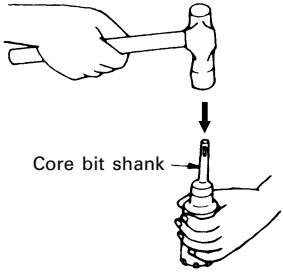


Fig. 21

GREASE REPLACEMENT

This machine is full air-tight construction to protect against dust incursion and to prevent lubricant leakage. This machine can be used without grease replenishment for an extended period of time. However, perform the grease replacement to extend the service life. Replace the grease as described below.

1. Grease Replacement Period
You should look at the grease when you change the carbon brush. (See item 4 in the section MAINTENANCE AND INSPECTION.)
Ask for grease replacement at the nearest authorized Hitachi Service Center.
In the case that you are forced to change the grease by yourself, please follow the following points.

2. How to replace grease

CAUTION:
Before replacing the grease, turn the power off and pull out the plug from the receptacle.

(1) Disassemble the crank cover and thoroughly wipe off the old grease inside. (**Fig. 22**)

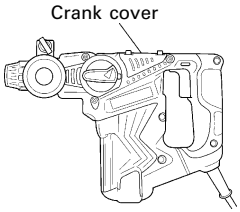


Fig. 22

(2) Supply 25g of Hitachi Electric Hammer Grease A (standard accessory, contained in tube) in the crank case.
(3) After replacing the grease, reassemble the crank cover securely. At this time, do not damage or lose the oil seal.
NOTE:
The Hitachi Electric Hammer Grease A is of the low viscosity type. When the grease is consumed, purchase from the authorized Hitachi Service Center.

MAINTENANCE AND INSPECTION

1. **Inspecting the drill bits**
Since use of a dull tool will cause motor malfunctioning and degraded efficiency, replace the drill bit with new ones or resharpen them without delay when abrasion is noted.
2. **Inspecting the mounting screws:**
Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.
3. **Maintenance of the motor**
The motor unit winding is the very heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.
4. **Inspecting the carbon brushes**
For your continued safety and electrical shock protection, carbon brush inspection and replacement on this tool should ONLY be performed by a HITACHI AUTHORIZED SERVICE CENTER.
5. **Replacing supply cord**
If the supply cord of Tool is damaged, the Tool must be returned to Hitachi Authorized Service Center for the cord to be replaced.
6. **Service parts list**
A: Item No.
B: Code No.
C: No. Used
D: Remarks

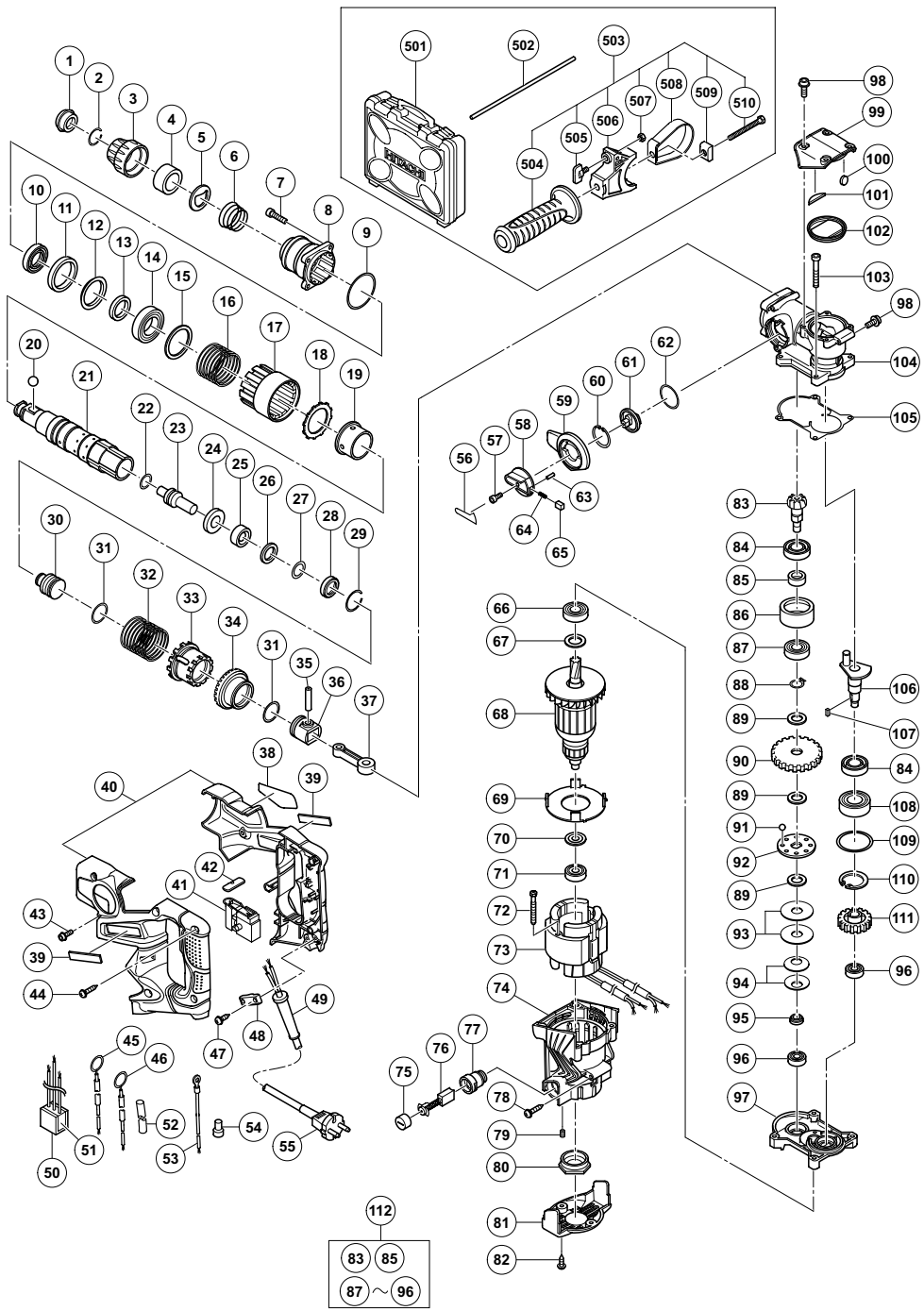
CAUTION

Repair, modification and inspection of Hitachi Power Tools must be carried out by an Hitachi Authorized Service Center.
This Parts List will be helpful if presented with the tool to the Hitachi Authorized Service Center when requesting repair or other maintenance.
In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

MODIFICATIONS

Hitachi Power Tools are constantly being improved and modified to incorporate the latest technological advancements.
Accordingly, some parts (i.e. code numbers and/or design) may be changed without prior notice.

NOTE:
Due to HITACHI's continuing program of research and development, the specifications herein are subject to change without prior notice.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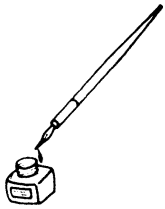
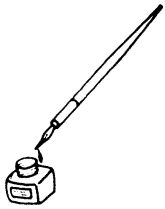
A	B	C	D
1	306345	1	
2	306340	1	
3	324527	1	
4	330192	1	
5	324526	1	
6	330191	1	
7	992803	4	M6×20
8	330174	1	
9	990067	1	
10	328867	1	
11	330175	1	
12	330184	1	
13	304020	1	
14	6905DD	1	6905DDCMPS2L
15	330176	1	
16	330177	1	
17	330178	1	
18	330179	1	
19	330187	1	
20	959156	1	D7.0
21	330180	1	
22	323058	1	
23	330181	1	
24	330182	1	
25	330183	1	
26	331672	1	
27	330186	1	
28	331673	1	
29	323062	1	
30	330185	1	
31	319577	2	I.D. 19.2
32	330188	1	
33	330189	1	
34	330190	1	
35	330173	1	
36	330172	1	
37	319585	1	
38	———	1	
39	886342	2	
40	330256	1	
41	331677	1	
42	322853	1	
43	316228	4	M4×10
44	307028	3	D4×25
45-1	330254	1	
45-2	330217	1	“GBR(110V)”
46-1	330255	1	
46-2	330218	1	“GBR(110V)”
47	984750	2	D4×16
48	960266	1	
49	953327	1	D8.8
50	317492	1	
51	325566	1	
52	330215	1	
53	330216	1	L270
54	959140	1	
55	———	1	
56	321867	1	
57	983162	1	M4×12
58	321309	1	
59	330207	1	
60	322064	1	
61	330206	1	
62	330205	1	
63	321312	1	D2×10
64	321310	1	
65	321311	1	

A	B	C	D
66	6001DD	1	6001DDCMPS2L
67	971736	1	
68-1	360857C	1	110V
68-2	360857U	1	120V “66, 67, 70, 71”
68-3	360857E	1	230V
68-4	360857F	1	240V
69	330202	1	
70	982631	1	
71	608VVM	1	
72	980864	2	D5×40
73-1	340739C	1	110V
73-2	340739G	1	120V
73-3	340739E	1	230V
73-4	340739H	1	230V “SIN”
73-5	340-739J	1	240V
74	330201	1	“77, 79”
75	935829	2	
76	999004	2	
77	957051	2	
78	302089	2	D5×20
79	938477	2	M5×8
80	310111	1	
81	330203	1	
82	307811	2	D4×16
83	330196	1	
84	981851	2	
85	330197	1	
86	330194	1	
87	6001DD	1	6001DDCMPS2L
88	909542	1	
89	992503	3	
90	330198	1	
91	959155	8	D3.97
92	992916	1	
93	992926	2	
94	980877	2	
95	330199	1	
96	608VVM	2	
97	330200	1	
98	994192	6	M5×16
99	330204	1	
100	324544	1	
101	331674	1	
102	331675	1	
103	324060	4	M5×40
104	330169	1	
105	331676	1	
106	330170	1	
107	944109	1	3×3×8
108	6002DD	1	6002DDCMPS2L
109	972767	1	S-32
110	948001	1	
111	330171	1	
112	330195	1	“83, 85, 87-96”
501	330220	1	
502	982671	1	
503	330208	1	“504-510”
504	330209	1	
505	307947	1	M6×12
506	330210	1	
507	949556	1	M6
508	330212	1	
509	330211	1	
510	330213	1	M8×45





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